COMPUTATION-DATUM-TO-DATUM COORDINATE TRANSFORMATION
USER-DEFINED DATUMS (FED MSR)
For use of this form, see FM 6-2; the proponent agency is TRADOC.

COMPUTER:	NOTEBOOK REFERENCE:	DATE:
CHECKER:	AREA:	SHEET OF SHEETS

INSTRUCTIONS	NOTES
1. Select TRANSFORMATIONS (option C) from the MODE MENU. 2. Select USER DEF TO USER DEF DATUM (option L) USER DEF TO LISTED DATUM (option M), or LISTED TO USER DEF DATUM from the TRANSFORMATIONS MENU. 3. Select the desired record from the display SUMMARY LIST. 4. Observe the required fields, and enter the desired data.	1. Press ENTER to display the window of legal entries. 2. Remove window of legal entries by pressing ENTER before pressing the C key to calculate.

REQUIRED FIELDS	DATA RECORD		
	USER DEF TO USER DEF	USER DEF TO LISTED	LISTED TO USER DEF
ENTER STATION NAME: ?	STATION NAME:	STATION NAME:	STATION NAME:
ENTER FROM LISTED DATUM: ?			FROM DATUM:
ENTER X SHIFT USER DEF1: ?	X SHIFT:	X SHIFT:	
ENTER Y SHIFT USER DEF1: ?	Y SHIFT:	Y SHIFT:	
ENTER Z SHIFT USER DEF1: ?	Z SHIFT:	Z SHIFT:	
ENTER SEMI-MAJOR USER DEF1: ?	SEMI-MAJOR AXIS:	SEMI-MAJOR AXIS:	
ENTER FLAT/MINOR USER DEF1: ?	ENTER F OR M	ENTER F OR M	
ENTER FLATTENING USER DEF1: ?	FLATTENING:	FLATTENING:	
ENTER SEMI-MINOR USER DEF1: ?	SEMI-MINOR AXIS:	SEMI-MINOR AXIS:	
ENTER EASTING: ?	EASTING:	EASTING:	
ENTER NORTHING: ?	NORTHING:	NORTHING:	
ENTER GRID ZONE: ?	GRID ZONE:	GRID ZONE:	
ENTER TO LISTED DATUM: ?		TO DATUM:	
ENTER X SHIFT USER DEF2: ?	X SHIFT:		X SHIFT:
ENTER Y SHIFT USER DEF2: ?	Y SHIFT:		Y SHIFT:
ENTER Z SHIFT USER DEF2: ?	Z SHIFT:		Z SHIFT:
ENTER SEMI-MAJOR USER DEF2: ?	SEMI-MAJOR AXIS:		SEMI-MAJOR AXIS:
ENTER FLAT/MINOR USER DEF2: ?	ENTER F OR M		ENTER F OR M
ENTER FLATTENING USER DEF2: ?	FLATTENING:		FLATTENING:
ENTER SEMI-MINOR USER DEF2: ?	SEMI-MINOR AXIS:		SEMI-MINOR AXIS:
ZONE TO ZONE: ?	ENTER Y OR N	ENTER Y OR N	ENTER Y OR N
ENTER ENDING GRID ZONE: ?	GRID ZONE:	GRID ZONE:	GRID ZONE:

REQUIRED FIELDS	DATA RECORD	REMARKS:
RECORD EASTING: ?	EASTING:	
RECORD NORTHING: ?	NORTHING:	
RECORD GRID ZONE: ?	GRID ZONE:	
RECORD ELLIPSOID: ?	ELLIPSOID:	

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KRASSOVSKY DATUMS			BESSEL DATUMS		
DATUM NAME	CODE	DISPLAYED NAME	DATUM NAME	CODE	DISPLAYED NAME
Afgooye	1	AFGOOYE	Potsdam	1	POTSDAM
Herat North	2	HERAT NORTH	Tokyo	2	TOKYO
Peking 1954	3	PEKING 1954			
Pulkovo 1942	4	PULKOVO 1942			

UTM DATUMS

DATUM NAME	CODE	DISPLAYED NAME	DATUM NAME	CODE	DISPLAYED NAME
Adindan[1]	1	ADINDAN	Massawa	51	MASSAWA
Afgooye	2	AFG	Merchich	52	MERCHICH
Ain el Abd 1970	3	AIN EL ABD 1970	Midway Astro 1961	53	MIDWAY AST 1961
Anna 1 Astro 1965	4	ANNA 1 AST 1965	Minna	54	MINNA
Arc 1950	5	ARC 1950	Nahrwan 1 (Masirah Island [Oman])	55	NAHRWAN 1 OMAN
Arc 1960	6	ARC 1960	Nahrwan 2 (United Arab Emirates)	56	NAHRWAN 2 UAE
Ascension Island 1958	7	ASCENSION IL 1958	Nahrwan 3 (Saudi Arabia)	57	NAHRWAN 3 SAUDI
Astro Beacon E	8	ASTRO BEACON E	Schwarzech (Namibia)	58	NAMIBIA
Astro Tem Island (FRIG) 1961[2]	9	AST B4 SOR ATOL	Naparima, BWI	59	NAPARIMA BWI
Astro DOS[2]	10	ASTRO POS 714	North America 1927 (Continental United States)	60	NAD 27 CONUS
Astronomic Station 1952	11	ASTRO STA 52	North America 1927 (Alaska)	61	NAD 27 ALASKA
Australian Geodetic 1966	12	AUSTRL GEO 1966	North America 1927 (Bahamas, excluding San Salvador Island)	62	NAD 27 BAHAMAS
Australian Geodetic 1984	13	AUSTRL GEO 1984	North America 1927 (San Salvador Island)	63	NAD 27 SALVADOR
Bellevue (IGN)	14	BELLEVUE IGN	North America 1927 (Canada)	64	NAD 27 CANADA
Bermuda 1957	15	BERMUDA 1957	North America 1927 (Canal Zone)	65	NAD 27 CANAL ZO
Bogota Observatory	16	BOGOTA OBSERVY	North America 1927 (Caribbean)	66	NAD 27 CARIBEAN
Compo Inchauspe	17	COMPO INCHAUSPE	North America 1927 (Central America)	67	NAD 27 CENT AM
Canton Astro 1966[2]	18	CANTON IL 1966	North America 1927 (Cuba)	68	NAD 27 CUBA
Cape	19	CAPE	North America 1927 (Greenland)	69	NAD 27 GREENLD
Cape Canaveral	20	CAPE CANAVERAL	North America 1927 (Mexico)	70	NAD 27 MEXICO
Carthage	21	CARTHAGE	North America 1983	71	NORTH AMER 1983
Chatham 1971	22	CHATHAM 1971	Meteorologico 1983[2]	72	OBSERVATOR 1966
Chua Astro	23	CHUA ASTRO	Old Egyptian 1907[2]	73	OLD EGYPT 1930
Corrego Alegre	24	CORREGO ALEGRE	Old Hawaiian	74	OLD HAWAIIAN
Djakarta (Batavia)	25	DJAKARTA BATAV	Oman	75	OMAN
DOS 1968	26	DOS 1968	Ordnance Survey of Great Britain 1936	76	ORD SV GR BR 36
Easter Island 1967	27	EASTER IL 1967	Pico de Las Nieves	77	PICO DE LAS NVS
European 1950	28	EUROPEAN 1950	Pitcaim Astro 1967	78	PITCRN AST 1967
European 1979	29	EUROPEAN 1979	Provisional South Chilean 1963 or Hito XVIII 1963[2]	79	PROV S CHIL 63
Gandajika Base	30	GANDAJIKA BASE	Provisional South America 1956	80	PROV S AMER 56
Geodetic Datum 1949	31	GEO DATUM 1949	Puerto Rico	81	PUERTO RICO
Guam 1963	32	GUAM 1963	Oatar National	82	OATAR NATIONAL
Gux 1 Astro	33	GUX 1 ASTRO	Oornoq	83	OORNOO
Hjorsey 1955	34	HJORSEY 1955	Rome 1940	84	ROME 1940
Hong Kong 1963	35	HONG KONG 1963	Sao Braz[2]	85	SANTA BRAZ
Indian 1 (Thailand, Vietnam)	36	IND 1 THAI VIET	Santa (DOS)	86	SANTA (DOS)
Indian 2 (Bangladesh, India, Nepal)	37	INDIAN 2	Sapper Hill 1943	87	SAPPR HILL 1943
Ireland 1965	38	IRELAND 1965	South America 1969	88	SOUTH AMERICAN
ISTS 073 Astro 1969	39	IST 73 AST 1969	South Asia	89	SOUTH ASIA
Johnston Island 1961	40	JOHNSTON IL 61	Porto Santo 1936[2]	90	SOUTHEAST BASE
Kandawala	41	KANDAWALA	Graciosa Base SW End 1948[2]	91	SOUTHWEAST BASE
Kerguelen Island	42	KERGUELEN IL	Timbalai 1948	92	TIMBALAI 1948
Kertau 1948	43	KERTAU 1948	Tokyo	93	TOKYO
Reunion[2]	44	LA REUNION	Tristan Astro 1968	94	TRISTN AST 1968
L. C. 5 ASTRO	45	L. C. 5 ASTRO	Viti Levu 1916	95	VITI LEVU 1916
Liberia 1964	46	LIBERIA 1964	Wake-Eniwetok 1960	96	WK ENIWETK 1960
Luzon 1 (Philippines)	47	LUZON 1 PHILIP	World Geodetic System 1972	97	WORLD GEO 1972
Luzon 2 (Mindanao Island)	48	LUZON 2 MINDAN	World Geodetic System 1984	98	WORLD GEO 1984
Mahe 1971	49	MAHE 1971	Zanderij	99	ZANDERIJ
Selvagem Grande 1938[2]	50	MARCO ASTRO			

[1] The transformation parameters for the Adindan datum have been updated by the Defense Mapping Agency. Use Program 16 (user-defined) with the following transformation parameters:

Semimajor Axis	Flattening	X-Shift	Y-Shift	Z-Shift
6378249.145	293.465	-166	-15	204

[2] Datum names were incorrect in DMA Technical Report (TR) 83501, 2 Dec 87, but are correct above. The FED-displayed names for these datums differ from the correct name.

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